In this document are the use cases for:

Add course (Student / Admin)  
Drop course (Student / Admin)  
Change section (Student / Admin)  
Set preferences (Student / Admin)  
Modify preferences (Student / Admin)  
Generate Schedule (Student / Admin – Based on student's course selection, & or preferences )  
Save schedule (Student / Admin)  
Delete schedule (Student / Admin)  
Print schedule (Student / Admin)

View schedule (Student/Admin)

Edit Account Information (Student/Admin)

Set taken courses (Student/Admin)

Update taken courses (Student/Admin)

Delete taken courses (Student/Admin)

Add course to program(admin)

Edit course(admin)

Delete course(admin)

Add section (adming)

Edit section (admin)

Delete Section(admin)

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| --- | --- | --- | --- |
| Name: | Add needed course | | |
| Identifier: | UC | Version: | 1.0 |
| Date Created: | 2015-02-03 | Last Modified: | 2015-02-08 |
| Importance: | 5/5 | | |
| Actor(s): | Student, Administrator | | |
| Goal: | Add a needed course to the schedule | | |
| Summary: | Select a course to be added to the list of courses for the schedule generator. | | |
| Related use-cases: | - | | |
| Preconditions | 1. User has been authenticated  2. Course requirements are met | | |
| Trigger: | User activates the “ Add Course"' process | | |
| Basic Flow: | 1. Choose a course  2. Save the course selection to the system | | |
| Post-Conditions: | **Success:** Course is added to the user's list of courses  **Failure:** System fails to process task and displays an error message. | | |
| Minimum Guarantee: | Previous state of the system remains unchanged. | | |
| Risk Assessment: | Low | | |
| Notes: |  | | |
| Author(s): | Ying-Chen Chu | | |

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| --- | --- | --- | --- |
| Name: | Drop course | | |
| Identifier: | UC | Version: | 1.0 |
| Date Created: | 2015-02-03 | Last Modified: | 2015-02-08 |
| Importance: | 5 | | |
| Actor(s): | Student, Administrator | | |
| Goal: | Remove a course from the schedule | | |
| Summary: | Remove a course from the list of selected courses for the schedule generator. | | |
| Related use-cases: | UC "**Modify Schedule**" | | |
| Preconditions | -User has been authenticated  -At least one course has been selected | | |
| Trigger: | User activates the "drop course" process. | | |
| Basic Flow: | 1. Choose a course  2. Remove the course from the list of selected courses  3. Save the course removal to the system | | |
| Post-Conditions: | **Success:** Course is removed from the user’s list of courses  **Failure**: System fails to process task and displays an error message | | |
| Minimum Guarantee: | Schedule remains the same | | |
| Risk Assessment: | Low | | |
| Notes: |  | | |
| Author(s): | Ying-Chen Chu | | |

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| --- | --- | --- | --- |
| Name: | Change Section | | |
| Identifier: | UC | Version: | 1.0 |
| Date Created: | 2015-02-03 | Last Modified: | 2015-02-08 |
| Importance: | 5/5 | | |
| Actor(s): | Student, Administrator | | |
| Goal: | Change course section | | |
| Summary: | Change the course section for a selected course from the list of selected courses. | | |
| Related use-cases: | UC "**Modify Schedule"** | | |
| Preconditions | -User has been authenticated  -At least one course has been selected | | |
| Trigger: | User activates the "change section" process. | | |
| Basic Flow: | 1. Choose a course  2. Remove the course from the list of selected courses  3. Save the course removal to the system | | |
| Post-Conditions: | **Success:** The user is removed from the previous section to a new section for the course.  **Failure:** System fails to process task and an error message is displayed. | | |
| Minimum Guarantee: | Schedule remains the same | | |
| Risk Assessment: | Medium | | |
| Notes: |  | | |
| Author(s): | Ying-Chen Chu | | |

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| --- | --- | --- | --- |
| Name: | Set Preferences | | |
| Identifier: | UC | Version: | 1.0 |
| Date Created: | 2015-02-03 | Last Modified: | 2015-02-08 |
| Importance: | 5/5 | | |
| Actor(s): | Student, Administrator | | |
| Goal: | Input the schedule preferences to the system | | |
| Summary: | Set the schedule preferences and save them to the system. | | |
| Related use-cases: | - | | |
| Preconditions | User has been authenticated | | |
| Trigger: | Previous state of the system remains unchanged. | | |
| Basic Flow: | 1. Input the schedule preferences  2. Save the preferences to the system | | |
| Post-Conditions: | **Success:** The user’s preferences are saved to the system.  **Failure:** System fails to process the task, and an error messages is displayed. | | |
| Minimum Guarantee: | Previous state of the system remains unchanged. | | |
| Risk Assessment: | Low | | |
| Notes: |  | | |
| Author(s): | Ying-Chen Chu | | |

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| --- | --- | --- | --- |
| Name: | Modify Preferences | | |
| Identifier: | UC | Version: | 1.0 |
| Date Created: | 2015-02-03 | Last Modified: | 2015-02-08 |
| Importance: | 5/5 | | |
| Actor(s): | Student, Administrator | | |
| Goal: | Modify the schedule preferences saved to the system | | |
| Summary: | Access the current preferences and change any of the preferences from the list of preferences. Then, save this new list of preferences. | | |
| Related use-cases: | - | | |
| Preconditions | -User has been authenticated  -A schedule preference was set | | |
| Trigger: | User modifies and inputs new preferences | | |
| Basic Flow: | 1. Change any of the preferences from the list of preferences.  2. Save the list of preferences to the system | | |
| Post-Conditions: | **Success:** The user’s modified preferences are saved to the system.  **Failure:** System fails to modify the preferences, and an error message is displayed. | | |
| Minimum Guarantee: | Previous preferences remains unchanged. | | |
| Risk Assessment: | Low | | |
| Notes: |  | | |
| Author(s): | Ying-Chen Chu | | |

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| --- | --- | --- | --- |
| Name: | Generate Schedule | | |
| Identifier: | UC | Version: | 1.0 |
| Date Created: | 2015-02-03 | Last Modified: | 2015-02-08 |
| Importance: | 5/5 | | |
| Actor(s): | Student, Administrator | | |
| Goal: | Generate a schedule | | |
| Summary: | Based on the course selection list and or without the list of preferences, the system generates schedule(s) for the selected courses. | | |
| Related use-cases: | UC "**View Schedule**" and UC "**Save Schedule**" | | |
| Preconditions | -User has been authenticated  -A schedule preference was set | | |
| Trigger: | User activates the "Generate Schedule" process | | |
| Basic Flow: | 1. A schedule generation is requested by the user to the system.  2. Schedule(s) are displayed to the user from the system. | | |
| Post-Conditions: | **Success:** Schedule(s) for the course selected (and or without the preferences) is generated.  **Failure:** System fails to generate a schedule and an error message displays | | |
| Minimum Guarantee: | Previous state of the system remains the same. | | |
| Risk Assessment: | High | | |
| Notes: |  | | |
| Author(s): | Ying-Chen Chu | | |

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| --- | --- | --- | --- |
| Name: | Save Schedule | | |
| Identifier: | UC | Version: | 1.0 |
| Date Created: | 2015-02-03 | Last Modified: | 2015-02-08 |
| Importance: | 5/5 | | |
| Actor(s): | Student, Administrator | | |
| Goal: | Save a generated schedule | | |
| Summary: | Save a schedule generated by the system by keeping a copy of the schedule on the system, accessible to the user. | | |
| Related use-cases: | UC "**View Schedule**" and UC "**Save Schedule**" | | |
| Preconditions | -User has been authenticated  -Schedule(s) were generated | | |
| Trigger: | Users activates the "save schedule" process. | | |
| Basic Flow: | 1. User chooses the schedules he wishes to save  2. User sends a request to the system to save these schedules  3. The chosen schedules are saved to the system | | |
| Post-Conditions: | **Success:** Saved schedules are accessible to the user from the system  **Failure:** System fails to save the schedule, and an error message displays. | | |
| Minimum Guarantee: | Previous state of the system remains the same. | | |
| Risk Assessment: | Low | | |
| Notes: |  | | |
| Author(s): | Ying-Chen Chu | | |

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| --- | --- | --- | --- |
| Name: | Delete Schedule | | |
| Identifier: | UC | Version: | 1.0 |
| Date Created: | 2015-02-03 | Last Modified: | 2015-02-08 |
| Importance: | 5/5 | | |
| Actor(s): | Student, Administrator | | |
| Goal: | Delete a saved schedule | | |
| Summary: | Delete a schedule from the list of saved schedules | | |
| Related use-cases: | UC "**Modify Schedule**" | | |
| Preconditions | -User has been authenticated  -At least one schedule in the list of saved schedules | | |
| Trigger: | Users activates "delete schedule" process. | | |
| Basic Flow: | 1. User chooses the schedule(s) he wishes to delete  2. User sends a request to the system to delete these schedule(s)  3. The chosen schedules are removed from the list of saved schedules. | | |
| Post-Conditions: | **Success:** Deleted schedules are no longer in the list of saved schedules, nor accessible through the system.  **Failure:** System fails to delete schedule and an error message is displayed. | | |
| Minimum Guarantee: | Previous state remains the same: schedule is not deleted. | | |
| Risk Assessment: | Low | | |
| Notes: |  | | |
| Author(s): | Ying-Chen Chu | | |

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| --- | --- | --- | --- |
| Name: | Print Schedule | | |
| Identifier: | UC | Version: | 1.0 |
| Date Created: | 2015-02-03 | Last Modified: | 2015-02-08 |
| Importance: | 3/5 | | |
| Actor(s): | Student, Administrator | | |
| Goal: | Print a saved or generated schedule | | |
| Summary: | Print a schedule generated by the system. The schedule has either just been generated or can be accessed through the list of saved schedules. | | |
| Related use-cases: | UC "**View Schedule**" | | |
| Preconditions | -User has been authenticated  -At least one schedule in the list of saved schedules or at least one schedule has been generated | | |
| Trigger: | Users activates "print schedule" process. | | |
| Basic Flow: | 1. User decides whether to print a schedule from the saved schedule list or from the freshly generated schedule(s).  2. User sends a request to the system to print the chosen schedule  3. The system sends a request to a printer to print the chosen schedule | | |
| Post-Conditions: | **Success:** The schedule is printed  **Failure**: Failure to print the schedule, and a failure message is displayed. | | |
| Minimum Guarantee: | Previous state of the system remains unchanged: schedule remains the same. | | |
| Risk Assessment: | Medium | | |
| Notes: |  | | |
| Author(s): | Ying-Chen Chu | | |

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| --- | --- | --- | --- |
| Name: | View Schedule | | |
| Identifier: | UC | Version: | 1.0 |
| Date Created: | 2015-02-03 | Last Modified: | 2015-02-08 |
| Importance: | 5/5 | | |
| Actor(s): | Student, Administrator | | |
| Goal: | View a saved schedule | | |
| Summary: | View a schedule from the list of saved schedules | | |
| Related use-cases: | UC "**Generate Schedule**" | | |
| Preconditions | -User has been authenticated  -At least one schedule in the list of saved schedules | | |
| Trigger: | Users activates "view schedule" process. | | |
| Basic Flow: | 1. User chooses the schedule he wishes to view from the list of saved schedules  2. User sends a request to the system to view the schedule  3. The system displays the schedule to the user | | |
| Post-Conditions: | **Success:** The user sees the scheduler he choose.  **Failure:** System fails to display the schedule, and an error message is displayed. | | |
| Minimum Guarantee: | Previous state of the system remains the same | | |
| Risk Assessment: | Low | | |
| Notes: |  | | |
| Author(s): | Ying-Chen Chu | | |